

Amendments to the Claims:

1. (currently amended) A communication system including ~~one or more~~ a plurality of communication networks defining a shared communication resource supporting communications for a plurality of communication units ~~on a shared communication resource~~, wherein the communication ~~network system~~ comprises:

- an identification function for identifying interference ~~from a first communication unit~~ experienced by a second communication unit operating within ~~or non-availability of~~ a portion of the shared resource;
- a resource-responsible agent responsive to the identification function, ~~the resource-responsible agent distributable from the second communication unit to the first communication unit in response to~~ identifying an interference ~~from the first communication unit~~ within ~~or non-availability of a~~ the portion of the shared resource; and
- a communication adaptation function, responsive to the resource-responsible agent, ~~the communication adaptation function operable to influence the communication behavior of the first communication unit in reducing a level an effect of the interference or making a~~ in the portion of the shared resource ~~available for~~ used by the second communication unit.

2. (currently amended) A communication system according to Claim 1, wherein the ~~resource-responsible agent is activated in the first communication unit upon receipt of a trigger~~ one or more communication networks comprises a first network generating interference that affects communications on a second network.

3. (currently amended) A communication system according to Claim ~~2~~ 1, wherein the first and second communication units reside on different communication networks, and wherein the communication networks are uncoordinated.

4. (currently amended) A communication system according to Claim 2 1, wherein the resource-responsible agent is propagated from interfering communication unit to interfering communication unit identification function resides in a subscriber unit or a serving communication unit on the second network.

5. (currently amended) A communication system according to Claim 2 4, wherein the propagation occurs between communication adaptation function resides in a subscriber unit or a serving communication unit operating on the first network such that the resource-responsible agent is able to influence the communication of the subscriber unit or the communication behaviour on the first communication networks.

6. (currently amended) A communication system according to Claim 2, wherein the communication system is further ~~characterised by~~ comprises a reconciliation and mediation agent operably coupled to the first network and second network for mediating therebetween.

7. (previously presented) A communication system according to Claim 6, wherein the reconciliation and mediation agent reconciles interference that the first network caused to the second network and determines any countermeasures employed by either network.

8. (currently amended) A communication system according to Claim 2 1, wherein an activation of the resource-responsible agent in the first communication unit has different sensitivity threshold levels, where each sensitivity threshold level initiates a different operational response within the first communication unit the second network suffering interference from the first network initiates a procedure to detect the interference and inform the first network of the interference.

9. (currently amended) A communication system according to Claim 1, wherein an activation of the resource-responsible agent in the first communication unit has different priority responses, where each different operational response within the first communication unit is initiated in priority order ~~the one or more communication networks is a single network~~, such that the communication adaptation function is responsive to the resource-responsible agent in reducing a level of interference or making a portion of the shared resource available for use within the single network.

10. (currently amended) A communication unit for reducing interference including a processor ~~operating~~ operable on a plurality of communication networks defining a shared communication resource, wherein the processor comprises:

a resource-responsible agent distributable from an other communication unit, responsive to an identification of interference in the other communication unit caused by the communication unit within ~~or non-availability of~~ a portion of the shared communication resource; and

a communication adaptation function, responsive to the resource-responsible agent, the communication adaptation function operable to influence the communication behavior of the communication unit in reducing a level an effect of the interference caused by the communication unit ~~or making a in the~~ portion of the shared resource ~~available for used~~ by the other communication units.

11. (previously presented) A communication unit according to Claim 10, wherein the communication unit is a wireless subscriber communication unit or a wireless serving communication unit.

12. (currently amended) A communication unit according to Claim 10, wherein the resource-responsible agent is distributable to a number of communication units operating in the ~~one or~~ more networks.

13. (previously presented) A communication unit according to Claim 12, wherein the distribution and/or activation of the resource-responsible agent is based on one or more of the following: location of an interference or communication unit, usage patterns that historically resulted in interference, exchange for receiving a reduced tariff for usage.

14. (previously presented) A communication unit according to Claim 10, wherein the communication adaptation function in response to the resource-responsible agent restricts capabilities of an interfering communication unit for certain classes of users.

15. (currently amended) A communication unit according to Claim 10, wherein the identification of interference within ~~or non-availability of~~ a portion of the shared communication resource is based on one or more of the following: a local measurement of interference, an interference measurement transmitted to a communication unit via the network or a serving communication unit, an interference measurement transmitted to a communication unit from another communication unit in a similar locality.

16. (currently amended) A communication unit according to Claim 10, wherein the communication adaptation function comprises one or more time-limited behaviour behavior pattern(s), ~~including at least one of the group of, a reduction in transmit power of a subscriber communication unit, a network causing interference, for a random period of time, and a network causing interference for a fixed period of time.~~

17. (previously presented) A communication unit according to Claim 10, wherein the communication adaptation function automatically and/or autonomously adapts one or more operational parameters of the communication unit in response to the resource-responsible agent.

18. (currently amended) A communication unit according to Claim 10, wherein the communication adaptation function adapts one or more performance attributes of the interfering wireless communication unit causing one or more of the following effects: a less clear audio signal and/or video signal, break a connection, fail to establish a connection, perform at a reduced power level or limit a connection time, a reduction in the wireless communication unit's battery power, temporarily disabling the interfering wireless communication unit, increasing a tariff, and withholding service.

19. (previously presented) A communication unit according to Claim 10, wherein a communication unit having received a resource-responsible agent is able to remove an effect of the resource-responsible agent if the communication unit performs one or more of the following:

- (i) Power-down upon sensing or being informed of interference;
- (ii) Switch to operating in an opportunity driven multiple access mode;
- (iii) Switch to using local short-range nodes to obtain information;
- (iv) Switch to using a fixed wire-line connection;
- (v) Halts communications until it is operating nearer to its serving wireless communication unit; and
- (vi) Effect a payment for the resource-responsible agent to be disabled.

20. (previously presented) A communication unit according to Claim 10, wherein an action taken by the communication adaptation function is based on its sensitivity to, or prioritisation allocated to, one or more of the following parameters:

- (i) Location of the wireless communication unit;
- (ii) Frequency of operation of the wireless communication unit;
- (iii) Radio frequency transmit power of the wireless subscriber communication unit;
- (iv) One or more services requested by the wireless subscriber communication unit; and
- (v) Event correlations.

21. (previously presented) The communication system according to Claim 6, wherein the reconciliation and mediation agent mediates between at least two interfering uncoordinated networks.

22. (previously presented) The communication system according to Claim 7, wherein the reconciliation and mediation agent is configured to determine whether any countermeasures that either network has performed has reduced the interference.

23. (previously presented) The communication system according to Claim 22, wherein the reconciliation and mediation agent includes a function that controls one or more of the following behaviours:

- (i) An ability to report back behaviour and/or countermeasure behaviour employed by a communication unit;
- (ii) An ability to trace a progress of a resource-responsible agent strain; and
- (iii) An ability for the communication unit to time-stamp its activity.

24. (previously presented) The communication system according to claim 6, wherein the reconciliation and mediation agent is distributable to at least one of a subscriber communication unit and a communication network to effect a modification of the wireless subscriber communication unit's or communication network's operational capabilities in response to a trigger related to potential interference or non-availability of a communication resource.

25. (previously presented) The communication unit according to Claim 10 wherein the processor includes a resource-responsible agent operable to modify one or more operational parameters of the communication unit in response to determining that it is operating in a resource irresponsible manner.

26. (currently amended) A method of ~~reducing interference~~ sharing a communication resource in a communication system including ~~one or more~~ a plurality of communication networks defining a shared communication resource supporting communication for a plurality of communication units ~~on the shared communication resource~~, the method comprising the steps of:

identifying an interference ~~from a first communication unit experienced by a second communication unit operating within or non-availability of~~ a portion of the shared resource;

distributing and/or activating a resource-responsible agent ~~in the first communication unit~~ to reduce a level of interference ~~or make a portion of the shared resource available for use~~ in the communication system in response to ~~the identifying step an interference within or non-availability of a portion of the shared resource~~; and

adapting one or more communication functions upon receipt of activation of the resource-responsible agent ~~to influence the communication behaviour of the first communication unit in reducing an effect of the interference in the portion of the shared resource used by the second communication unit~~.

27. (currently amended) A method of ~~reducing interference~~ sharing a communication resource in a communication system according to Claim 26, wherein the one or more communication networks are uncoordinated and comprises at least a first network generating interference that affects communications on a second network, wherein the method is further comprising the step of:

mediating between the first network and the second network based on any countermeasures employed by either network.

28-29. (cancelled).